

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

PS&E PLAN AND PROFILE OF
BIKEWAY CONNECTION AT INTERSECTION OF ROUTE 3 & ROUTE 60, MASSACHUSETTS AVENUE, PLEASANT STREET & MYSTIC STREET
IN THE TOWN OF
ARLINGTON
MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. CM/HSI-002S(719)X

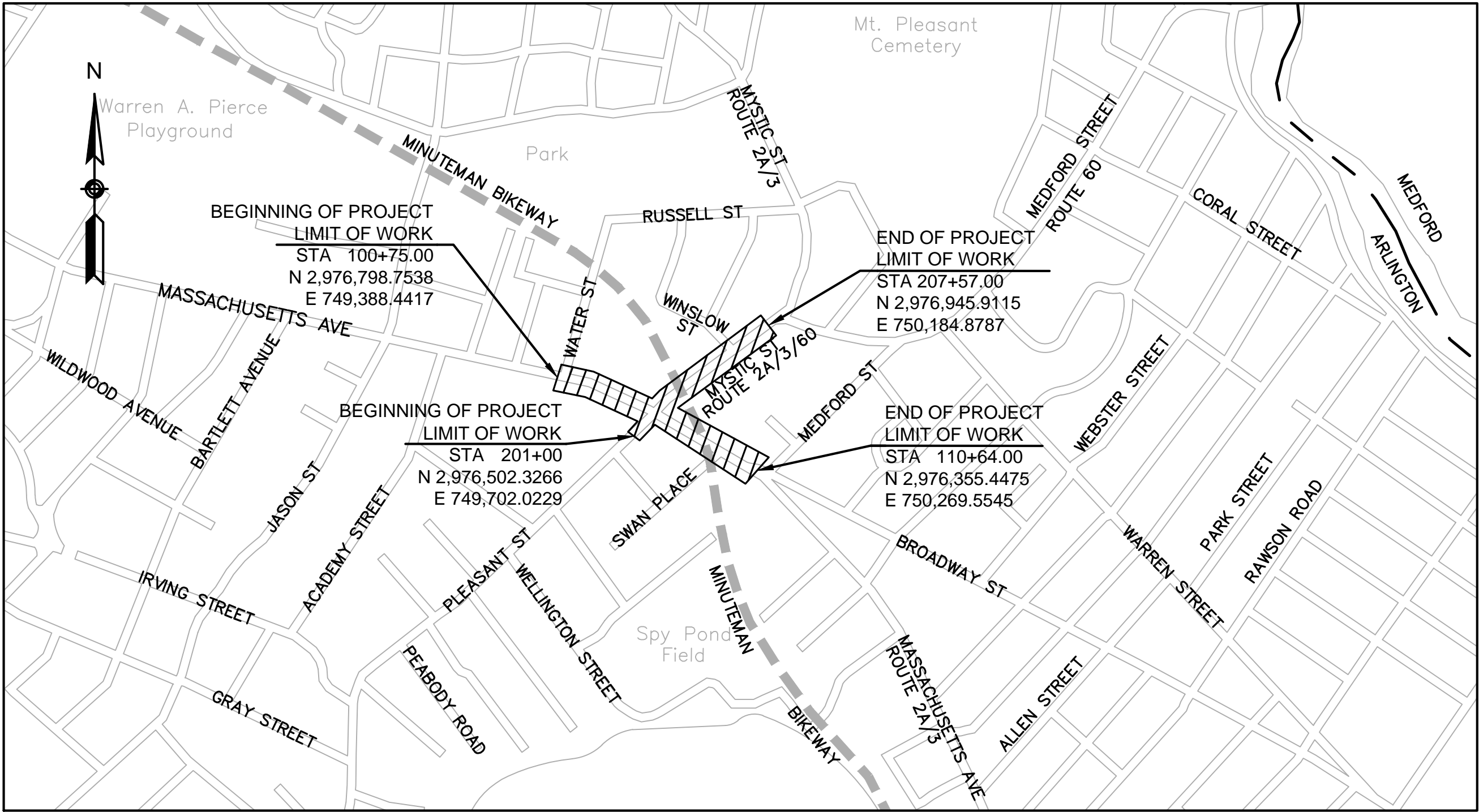
ARLINGTON
BIKEWAY CONNECTION AT INTERSECTION OF
MASSACHUSETTS AVENUE & MYSTIC STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	CM/HSI-002S(719)X	1	53
PROJECT FILE NO.		606885	

TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, THE 2014 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS, (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE AASHTO GUIDE FOR THE PLANNING, DESIGN, AND OPERATION OF PEDESTRIAN FACILITIES 2012, THE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES 2012, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2-3	LEGEND & ABBREVIATIONS
4-5	KEY PLAN & BORINGS
6-7	TYPICAL SECTIONS
8-13	CONSTRUCTION DETAILS
14	CONSTRUCTION BASELINE TIE PLANS
15-18	CONSTRUCTION PLANS
19-22	CURB TIE AND GRADING PLANS
23-31	TRAFFIC SIGNAL PLANS
32-35	TRAFFIC SIGNS & PAVEMENT MARKINGS
36	TRAFFIC SIGN SUMMARY SHEETS
37-41	MASSDOT SIGNAL SHEETS
42-51	TEMPORARY TRAFFIC CONTROL PLANS
52-53	CROSS SECTIONS



DESIGN DESIGNATION - MASSACHUSETTS AVENUE

DESIGN SPEED	30 MILES/HR
ADT (CURRENT)	24,705
ADT (DESIGN YEAR)	27,295
K	7.8%
D	53.8% EB
T (PEAK HOUR)	1.1%
DHV	2,130
DDHV	1,145
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

DESIGN DESIGNATION - MYSTIC STREET / PLEASANT STREET

DESIGN SPEED	30 MILES/HR
ADT (CURRENT)	20,285
ADT (DESIGN YEAR)	22,410
K	7.4%
D	51.2% SB
T (PEAK HOUR)	2.2%
DHV	1,670
DDHV	856
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL



LENGTH OF PROJECT = 1650.00 FEET= 0.312 MILES

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Boston, MA 02108
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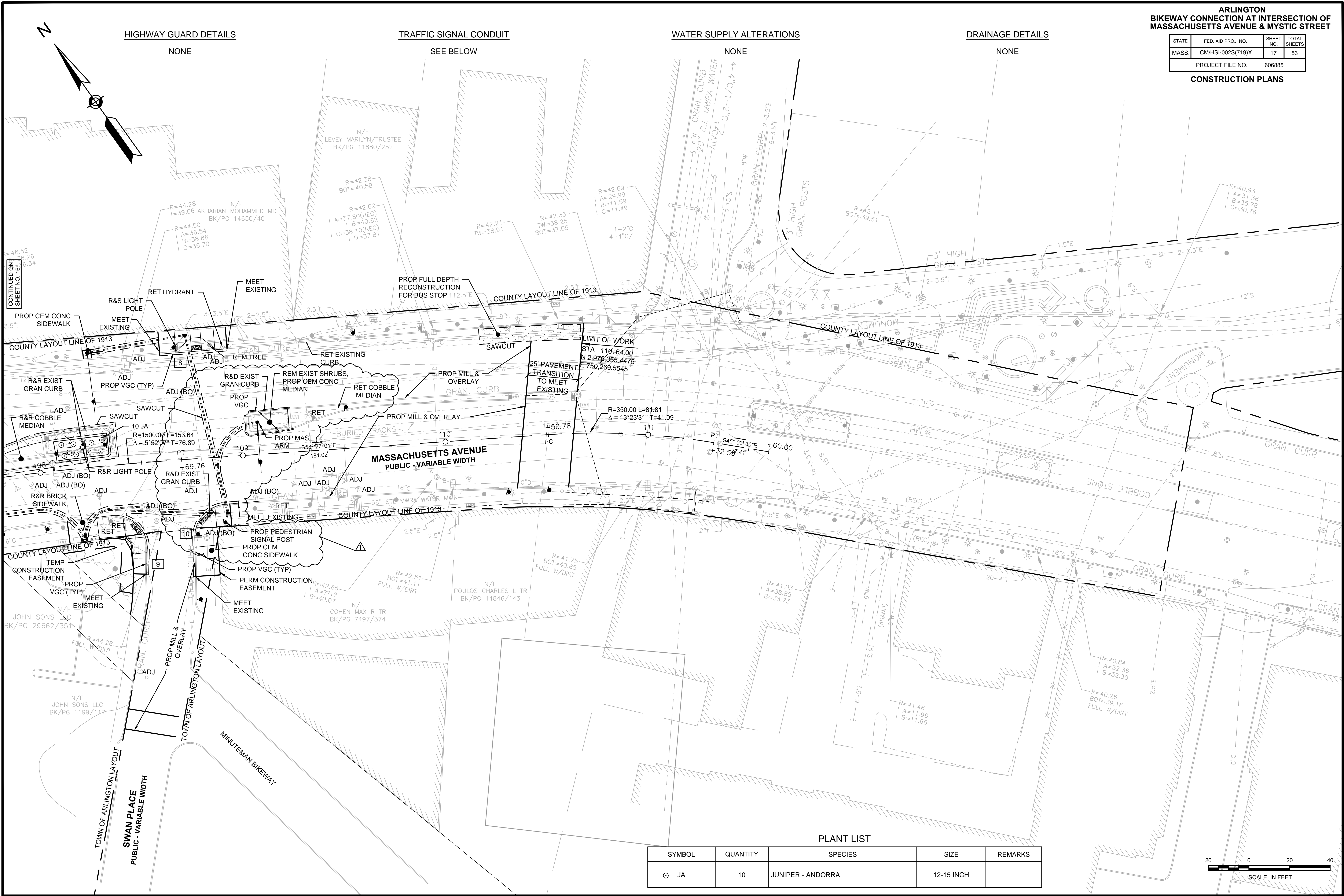
11/16/2015	TRAFFIC SIGNAL UPDATES	1
DATE	DESCRIPTION	REV #

RECOMMENDED FOR APPROVAL	
CHIEF ENGINEER	DATE
APPROVED	
DIVISION ADMINISTRATOR	DATE
HIGHWAY ADMINISTRATOR	DATE

ARLINGTON
BIKEWAY CONNECTION AT INTERSECTION OF
MASSACHUSETTS AVENUE & MYSTIC STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	CM/HSI-002S(719)X	17	53
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CONSTRUCTION PLANS



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

SEE BELOW

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

NONE

PLANT LIST

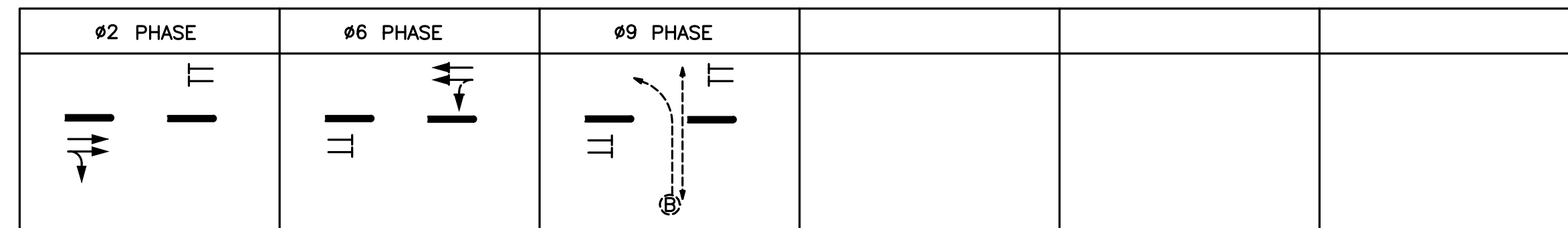
SYMBOL	QUANTITY	SPECIES	SIZE	REMARKS
⊙ JA	10	JUNIPER - ANDORRA	12-15 INCH	





TRAFFIC SIGNAL DATA LOCATION 2

		MAJOR ITEMS REQUIRED	
PAY ITEM	QUANTITY	ITEM	
815.1	1	TRAFFIC SIGNAL CONTROLLER CABINET & FOUNDATION	
	2	8' SIGNAL POLE, BASE, & FOUNDATION	
	1	25 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY, BASE & FDN.	
	1	30 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY, BASE & FDN.	
	4	3-SECTION, SIGNAL HOUSING (12" L.E.D.)	
	2	PEDESTRIAN HOUSING (16" L.E.D. W/ COUNTDOWN)	
	2	APS PUSH BUTTON, SIGN & SADDLES	
	1	VIDEO DETECTION CAMERA	
	1	VIDEO DETECTION CARD RACK	
	1	VIDEO DETECTION PROCESSOR	
	4	NON-LOUVERED BACKPLATES WITH 3-INCH REFLECTIVE STRIPS	
	1	ELECTRIC SERVICE CONNECTION - UNDERGROUND	
	811.30	2	8" X 23" PULL BOX
		Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.	

	1. DARK UNTIL ACTIVATED.		1. DON'T WALK.
	2. FLASHING YELLOW UPON ACTIVATION.		2. DON'T WALK
	3. STEADY YELLOW FOR VEHICLE CLEARANCE.		3. DON'T WALK.
	4. STEADY RED DURING BUFFER INTERVAL.		4. DON'T WALK.
	5. STEADY RED DURING PEDESTRIAN WALK INTERVAL.		5. WALK.
	6. ALTERNATING FLASHING RED DURING PEDESTRIAN CLEARANCE INTERVAL.		6. FLASHING DON'T WALK WITH COUNTDOWN.
	7. ALTERNATING FLASHING RED DURING PEDESTRIAN BUFFER INTERVAL.		7. DON'T WALK.
	8. DARK UNTIL ACTIVATED AGAIN.		8. DON'T WALK.

[illegible]

- ALL 12" LENS
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DETECTOR NUMBER	DETECTION SIZE	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.
②	9'X10'	9	9	B

